



Express Mail Label No. EV 608 873 385 US Dated: August 29, 2006

Docket No.: BGI-130CPRCE  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Markus Pompejus *et al.*

Application No.: 09/604693

Confirmation No.: 4996

Filed: June 27, 2000

Art Unit: 1652

For: *CORYNEBACTERIUM GLUTAMICUM*  
GENES ENCODING PROTEINS INVOLVED  
IN DNA REPLICATION, PROTEIN  
SYNTHESIS, AND PATHOGENESIS

Examiner: R. G. Hutson

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (SIDS)**

Dear Sir:

In accordance with 37 CFR 1.97, Applicants hereby make of record the following additional documents. A PTO Form SB/08 and a full copy of each of the documents required under 37 CFR 1.98(a)(2) accompany this statement.

This statement is not to be interpreted as a representation that the cited documents are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any document herein be construed *per se* as a representation that such document is prior art. Moreover, Applicants understand the Examiner will make an independent evaluation of the cited documents.

This Supplemental Information Disclosure Statement is filed more than three months after the U.S. filing date, after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

Accordingly, please charge our Deposit Account No. 12-0080 in the amount of \$180.00 covering

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Application No.: 09/604693

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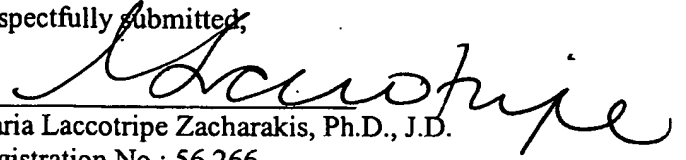
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Dated: August 29, 2006

MLZ/MG/JGS/mch

Respectfully submitted,

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PTO/SB/08a/b (07-05)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet	1	of	19	Attorney Docket Number	BGI-130CPRCE
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**Complete if Known**

Application Number	09/604693-Conf. #4996
Filing Date	June 27, 2000
First Named Inventor	Markus POMPEJUS
Art Unit	1652
Examiner Name	R. G. Hutson
Attorney Docket Number	BGI-130CPRCE

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
RV	B1	EP	0204326-A2	12-10-1986	Kyowa Hakko Kogyo Co., Ltd.		
	B2	JP	62232392	10-12-1987	Kyowa Hakko Kogyo Co., Ltd.		Abstr.
	B3	JP	62244382	10-24-1987	Ajinomoto Co., Inc.		Abstr.
	B4	EP	0358940-A1	03-21-1990	Degussa Aktiengesellschaft		
	B5	JP	04278088	10-02-1992	Mitsubishi Petrochem Co., Ltd.		Abstr.
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	B7	JP	05030977	02-09-1993	Mitsubishi Petrochem Co., Ltd.		Abstr.
	B8	JP	05056782	03-09-1993	Kyowa Hakko Kogyo Co. Ltd.		Abstr.
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	B10	JP	05184366	07-27-1993	Mitsubishi Petrochem Co. Ltd.		Abstr.
	B11	JP	05184371	07-27-1993	Mitsubishi Petrochem Co., Ltd.		Abstr.
	B12	JP	05284970	11-02-1993	Mitsubishi Petrochem Co., Ltd.		Abstr.
	B13	JP	05284972	11-02-1993	Mitsubishi Petrochem Co., Ltd.		Abstr.
	B14	JP	05344881	12-27-1993	Ajinomoto Co., Inc.		Abstr.
	B15	JP	05344893	12-27-1993	Mitsubishi Petrochem Co., Ltd.		Abstr.
	B16	JP	06062866	03-08-1994	Ajinomoto Co., Inc.		Abstr.
	B17	JP	06169780	06-21-1994	Mitsubishi Petrochem Co., Ltd.		Abstr.
	B18	JP	06261766	09-20-1994	Mitsubishi Petrochem Co., Ltd.		Abstr.
	B19	JP	06277067	10-04-1994	Mitsubishi Petrochem Co., Ltd.		Abstr.
	B20	JP	06277073	10-04-1994	Mitsubishi Petrochem Co., Ltd.		Abstr.
	B21	JP	07031476	02-03-1995	Mitsubishi Chem		Abstr.
	B22	JP	07031478	02-03-1995	Mitsubishi Chem		Abstr.
	B23	JP	09028391	02-04-1997	Mitsubishi Chem		Abstr.
	B24	JP	09070291	03-18-1997	Ajinomoto Co., Inc.		Abstr.
	B25	JP	07075578	03-20-1995	Mitsubishi Chem		Abstr.
	B26	JP	07075579	03-20-1995	Mitsubishi Chem		Abstr.
	B27	WO	9519442-A1	07-20-1995	Forschungszentrum Jülich GMGH Möckel		Abstr.
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				Attorney Docket Number	BGI-130CPRCE
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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
RK	C1	Ankri, Serge, et al., "Mutations in the <i>Corynebacterium glutamicum</i> Proline Biosynthetic Pathway: a Natural Bypass of the <i>proA</i> Step," <i>Journal of Bacteriology</i> , Vol. 178(15):4412-4419 (1996)		
	C2	Billman-Jacobe, H., "Nucleotide sequence of a <i>recA</i> gene from <i>Corynebacterium glutamicum</i> ," <i>The Journal of Sequencing and Mapping</i> , Vol. 4:403-404 (1994)		
	C3	Bonamy, Celine, et al., "Identification of IS1206, a <i>Corynebacterium glutamicum</i> IS3-related insertion sequence and phylogenetic analysis," <i>Molecular Microbiology</i> , Vol. 14(3):571-581 (1994)		
	C4	Bonnassie, S., et al., "Nucleotide sequence of the <i>dapA</i> gene from <i>Corynebacterium glutamicum</i> ," <i>Nucleic Acids Research</i> , Vol. 18(21):6421 (1990)		
	C5	Börmann, E.R., et al., "Molecular analysis of the <i>Corynebacterium glutamicum</i> <i>gdh</i> gene encoding glutamate dehydrogenase," <i>Molecular Microbiology</i> , Vol. 6(3):317-326 (1992)		
	C6	Chen, Chian-Chi, et al., "The cloning and nucleotide sequence of a <i>Corynebacterium glutamicum</i> 3-deoxy-D-arabinoheptulosonate-7-phosphate synthase gene," <i>FEMS Microbiology Letters</i> , Vol. 107:223-230 (1993)		
	C7	Cianciotto, Nicholas, et al., "DNA sequence homology between attB-related sites of <i>Corynebacterium diphtheriae</i> , <i>Corynebacterium ulcerans</i> , <i>Corynebacterium glutamicum</i> , and the attP site of $\gamma$ -Corynephage," <i>FEMS Microbiology Letters</i> , Vol. 66:299-302 (1990)		
	C8	Correia, Antonio, et al., "Cloning and characterization of an IS-like element present in the genome of <i>Brevibacterium lactofermentum</i> ATCC 13869," <i>Gene</i> , Vol. 170:91-94 (1996)		
	C9	Dusch, Nicole, et al., "Expression of the <i>Corynebacterium glutamicum</i> <i>panD</i> Gene Encoding L-Aspartate- $\alpha$ -Decarboxylase Leads to Pantothenate Overproduction in <i>Escherichia coli</i> ," <i>Applied and Environmental Microbiology</i> , Vol. 65(4):1530-1539 (1999)		
	C10	Eikmanns, Bernhard J., et al., "Nucleotide sequence, expression and transcriptional analysis of the <i>Corynebacterium glutamicum</i> <i>glfA</i> gene encoding citrate synthase," <i>Microbiology</i> , Vol. 140:1817-1828 (1994)		
	C11	Eikmanns, Bernhard J., "Identification, Sequence Analysis, and Expression of a <i>Corynebacterium glutamicum</i> Gene Cluster Encoding the Three Glycolytic Enzymes Glyceraldehyde-3-Phosphate Dehydrogenase, 3-Phosphoglycerate Kinase, and Triosephosphate Isomerase," <i>Journal of Bacteriology</i> , Vol. 174(19):6076-6086 (1992)		
	C12	Eikmanns, Bernhard J., et al., "Cloning, Sequence Analysis, Expression, and Inactivation of the <i>Corynebacterium glutamicum</i> <i>icd</i> Gene Encoding Isocitrate Dehydrogenase and Biochemical Characterization of the Enzyme," <i>Journal of Bacteriology</i> , Vol. 177(3):774-782 (1995)		
	C13	Eikmanns, Bernhard J., et al., "The phosphoenolpyruvate carboxylase gene of <i>Corynebacterium glutamicum</i> : Molecular cloning, nucleotide sequence, and expression," <i>Mol. Gen. Genet.</i> , Vol. 218:330-339 (1989)		
	C14	Fitzpatrick, R., et al., "Construction and characterization of <i>recA</i> mutant strains of <i>Corynebacterium glutamicum</i> and <i>Brevibacterium lactofermentum</i> ," <i>Appl. Microbiol. Biotechnol.</i> , Vol. 42:575-580 (1994)		
	C15	Follettie, Max T., et al., "Molecular Cloning and Nucleotide Sequence of the <i>Corynebacterium glutamicum</i> <i>pheA</i> Gene," <i>Journal of Bacteriology</i> , Vol. 167(2):695-702 (1986)		
	C16	Fouet, Agnes, et al., " <i>Bacillus subtilis</i> sucrose-specific enzyme II of the phosphotransferase system: Expression in <i>Escherichia coli</i> and homology to enzymes II from enteric bacteria," <i>Proc. Natl. Acad. Sci.</i> , Vol. 84:8773-8777 (1987)		

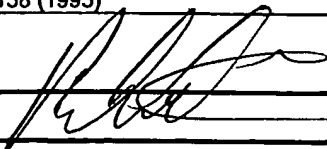
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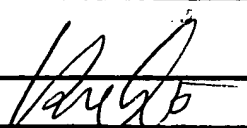
px	C17	Han, K.-S., et al., "The molecular structure of the <i>Corynebacterium glutamicum</i> threonine synthase gene," <i>Molecular Microbiology</i> , Vol. 4(10):1693-1702 (1990)
	C18	Heery, D.M., et al., "Nucleotide sequence of the <i>Corynebacterium glutamicum</i> trpE gene," <i>Nucleic Acids Research</i> , Vol. 18(23):7138 (1990)
	C19	Heery, D.M., et al., "Cloning of the trp Gene Cluster from a Tryptophan-Hyperproducing Strain of <i>Corynebacterium glutamicum</i> : Identification of a Mutation in the trp Leader Sequence," <i>Applied and Environmental Microbiology</i> , Vol. 59(3):791-799 (1993)
	C20	Heery, David M., et al., "A Sequence from a Tryptophan-Hyperproducing Strain of <i>Corynebacterium glutamicum</i> Encoding Resistance to 5-Methyltryptophan," <i>Biochemical and Biophysical Research Communications</i> , Vol. 201(3):1255-1262 (1994)
	C21	Honrubia, M.P., et al., "Identification, characterization, and chromosomal organization of the <i>ftsZ</i> gene from <i>Brevibacterium lactofermentum</i> ," <i>Mol. Gen. Genet.</i> , Vol. 259:97-104 (1998)
	C22	Ishino, Shuichi, et al., "Nucleotide sequence of the meso-diaminopimelate D-dehydrogenase gene from <i>Corynebacterium glutamicum</i> ," <i>Nucleic Acids Research</i> , Vol. 15(9):3917 (1987)
	C23	Jäger, Wolfgang, et al., "A <i>Corynebacterium glutamicum</i> Gene Conferring Multidrug Resistance in the Heterologous Host <i>Escherichia coli</i> ," <i>Journal of Bacteriology</i> , Vol. 179(7):2449-2451 (1997)
	C24	Jäger, Wolfgang, et al., "A <i>Corynebacterium glutamicum</i> gene encoding a two-domain protein similar to biotin carboxylases and biotin-carboxyl-carrier proteins," <i>Arch. Microbiol.</i> , Vol. 166:76-82 (1996)
	C25	Jakoby, Marc, et al., "Isolation of the <i>Corynebacterium glutamicum</i> <i>glnA</i> gene encoding glutamine synthetase I," <i>FEMS Microbiology Letters</i> , Vol. 154:81-88 (1997)
	C26	Jakoby, Marc, et al., "Nitrogen regulation in <i>Corynebacterium glutamicum</i> : isolation of genes involved and biochemical characterization of corresponding proteins," <i>FEMS Microbiology Letters</i> , Vol. 173:303-310 (1999)
	C27	Jetten, Mike S., et al., "Structural and Functional Analysis of Pyruvate Kinase from <i>Corynebacterium glutamicum</i> ," <i>Applied and Environmental Microbiology</i> , Vol. 60(7):2501-2507 (1994)
	C28	Joliff, G., et al., "Cloning and nucleotide sequence of the <i>csp1</i> gene encoding PS1, one of the two major secreted proteins of <i>Corynebacterium glutamicum</i> : the deduced N-terminal region of PS1 is similar to the <i>Mycobacterium</i> antigen 85 complex," <i>Molecular Microbiology</i> , Vol. 6(16):2349-2362 (1992)
	C29	Kalinowski, J., et al., "Genetic and biochemical analysis of the aspartokinase from <i>Corynebacterium glutamicum</i> ," <i>Molecular Microbiology</i> , Vol. 5(5):1197-1204 (1991)
	C30	Kalinowski, Jörn, et al., "Aspartokinase gene <i>lysC<math>\alpha</math></i> and <i>lysC<math>\beta</math></i> overlap and are adjacent to the aspartate $\beta$ -semialdehyde dehydrogenase gene <i>asd</i> in <i>Corynebacterium glutamicum</i> ," <i>Mol. Gen. Genet.</i> , Vol. 224:317-324 (1990)
	C31	Keilhauer, Carmen, et al., "Isoleucine Synthesis in <i>Corynebacterium glutamicum</i> : Molecular Analysis of the <i>ilvB-ilvN-ilvC</i> Operon," <i>Journal of Bacteriology</i> , Vol. 175(17):5595-5603 (1993)
	C32	Kimura, Eiichiro, et al., "Molecular Cloning of a Novel Gene, <i>dtsR</i> , Which Rescues the Detergent Sensitivity of a Mutant Derived from <i>Brevibacterium lactofermentum</i> ," <i>Biosci. Biotech. Biochem.</i> , Vol. 60(10):1565-1570 (1996)
	C33	Kobayashi, Miki, et al., "Cloning, Sequencing, and Characterization of the <i>ftsZ</i> Gene from <i>Corynebacterium glutamicum</i> ," <i>Biochemical and Biophysical Research Communications</i> , Vol. 236:383-388 (1997)
	C34	Kronmeyer, Wolfgang, et al., "Structure of the <i>gluABCD</i> Cluster Encoding the Glutamate Uptake System of <i>Corynebacterium glutamicum</i> ," <i>Journal of Bacteriology</i> , Vol. 177(5):1152-1158 (1995)

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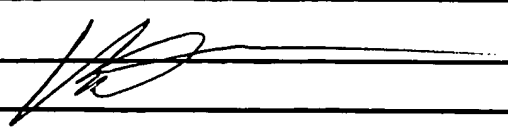
RV	C35	Lee, Heung-Shick, et al., "Molecular Characterization of AceB, a Gene Encoding Malate Synthase in <i>Corynebacterium glutamicum</i> ," <i>Journal of Microbiology and Biotechnology</i> , Vol. 4(4):256-263 (1994)	
	C36	Le Marrec, Claire, et al., "Genetic Characterization of Site-Specific Integration Functions of $\Phi$ AAU2 Infecting 'Arthrobacter aureus' C70," <i>Journal of Bacteriology</i> , Vol. 178(7):1996-2004 (1996)	
	C37	Lepiniec, Loïc, et al., " <i>Sorghum</i> phosphoenolpyruvate carboxylase gene family: structure, function and molecular evolution," <i>Plant Molecular Biology</i> , Vol. 21:487-502 (1993)	
	C38	Lichtinger, Thomas, et al., "Biochemical and Biophysical Characterization of the Cell Wall Porin of <i>Corynebacterium glutamicum</i> : The Channel Is Formed by a Low Molecular Mass Polypeptide," <i>Biochemistry</i> , Vol. 37:15024-15032 (1998)	
	C39	Ludwig, W., et al., "Phylogenetic relationships of <i>Bacteria</i> based on comparative sequence analysis of elongation factor Tu and ATP-synthase $\beta$ -subunit genes," <i>Antonie van Leeuwenhoek</i> , Vol. 64:285-305 (1993)	
	C40	Malubres, Marcos, et al., "Analysis said Expression of the <i>thrC</i> Gene of <i>Brevibacterium lactofermentum</i> and Characterization of the Encoded Threonine Synthase," <i>Applied and Environmental Microbiology</i> , Vol. 60(7):2209-2219 (1994)	
	C41	Marcel, T., et al., "Nucleotide sequence and organization of the upstream region of the <i>Corynebacterium glutamicum</i> <i>lysA</i> gene," <i>Molecular Microbiology</i> , Vol. 4(11):1819-1830 (1990)	
	C42	Mateos, Luis M., et al., "Nucleotide sequence of the homoserine kinase ( <i>thr B</i> ) gene of <i>Brevibacterium lactofermentum</i> ," <i>Nucleic Acids Research</i> , Vol. 15(9):3922 (1987)	
	C43	Mateos, Luis M., et al., "Nucleotide sequence of the homoserine dehydrogenase ( <i>thr A</i> ) gene of <i>Brevibacterium lactofermentum</i> ," <i>Nucleic Acids Research</i> , Vol. 15(24):10598 (1987)	
	C44	Matsui, Kazuhiko, et al., "Complete nucleotide and deduced amino acid sequences of the <i>Brevibacterium lactofermentum</i> tryptophan operon," <i>Nucleic Acids Research</i> , Vol. 14(24):10113-10114 (1986)	
	C45	Möckel, Bettina, et al., "Functional and Structural Analyses of Threonine Dehydratase from <i>Corynebacterium glutamicum</i> ," <i>Journal of Bacteriology</i> , Vol. 174(24):8065-8072 (1992)	
	C46	Molenaar, Douwe, et al., "Biochemical and genetic characterization of the membrane-associated malate dehydrogenase (acceptor) from <i>Corynebacterium glutamicum</i> ," <i>Eur. J. Biochem.</i> , Vol. 254:395-403 (1998)	
	C47	Moreau, Sylvia, et al., "Site-specific integration of corynephage $\Phi$ 16: construction of an integration vector," <i>Microbiology</i> , Vol. 145:539-548 (1999)	
	C48	Moreau, Sylvie, et al., "Analysis of the Integration Functions of $\Phi$ 304L: An Integrase Module among Corynephages," <i>Virology</i> , Vol. 255:150-159 (1999)	
	C49	O'Gara, James P., et al., "Mutations in the <i>trpD</i> Gene of <i>Corynebacterium glutamicum</i> Confer 5-Methyltryptophan Resistance by Encoding a Feedback-Resistant Anthranilate Phosphoribosyltransferase," <i>Applied and Environmental Microbiology</i> , Vol. 61(12):4477-4479 (1995)	
	C50	Oguiza, José A., et al., "A Gene Encoding Arginyl-tRNA Synthetase Is Located in the Upstream Region of the <i>lysA</i> Gene in <i>Brevibacterium lactofermentum</i> : Regulation of <i>argS-lysA</i> Cluster Expression by Arginine," <i>Journal of Bacteriology</i> , Vol. 175(22):7356-7362 (1993)	
	C51	Oguiza, José A., et al., "Molecular Cloning, DNA Sequence Analysis, and Characterization of the <i>Corynebacterium diphtheriae</i> <i>dtxR</i> Homolog from <i>Brevibacterium lactofermentum</i> ," <i>Journal of Bacteriology</i> , Vol. 177(2):465-467 (1995)	
	C52	Oguiza, José A., et al., "Multiple Sigma Factor Genes in <i>Brevibacterium lactofermentum</i> : Characterization of <i>sigA</i> and <i>sigB</i> ," <i>Journal of Bacteriology</i> , Vol. 178(2):550-553 (1996)	

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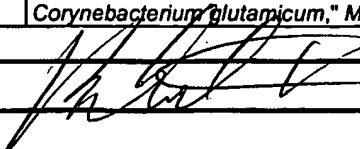
OK	C53	Oguiza, José A., et al., "The galE gene encoding the UDP-galactose 4-epimerase of <i>Brevibacterium lactofermentum</i> is coupled transcriptionally to the dmdR gene," <i>Gene</i> , Vol. 177:103-107 (1996)
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RK	C109	GenBank Accession No. AB020624 for Isolation of the murl gene from Brevibacterium lactofermentum ATCC 13869 encoding D-glutamate racemase, Malathi, K.C. et al, 07/24/99	
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C156	GenBank Accession No. AJ001436 for Corynebacterium glutamicum is equipped with four secondary carriers for compatible solutes: identification, sequencing, and characterization of the proline/ectoine uptake system, ProP, and the ectoine/proline/glycine betaine carrier, EctP, Peter, H. et al, 11/20/98
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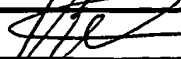
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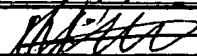
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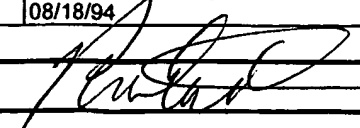
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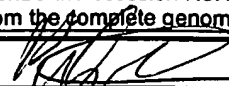
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RY C329 C330 C331 C332 C333 C334 C335 C336 C337 C338 C339 C340 C341 C342 C343 C344 C345 C346 C347 C348 C349	GenBank Accession No. Y00546 for Nucleotide sequence and fine structural analysis of the <i>Corynebacterium glutamicum</i> hom-thrB operon, Peoples, O.P. et al, 09/12/93		
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EV	C350	GenBank Accession No. Z81368, Cole, S.T. et al, "Deciphering the biology of Mycobacterium tuberculosis from the complete genome sequence," <i>Nature</i> , Vol. 393(6685):537-544 (1998), 09/02/02	
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